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L11	74	L10 and area	US-PGPUB; USPAT	OR	ON	2005/01/13 10:41
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Holly E. Rushmeier, Kenneth E. Torrance

January 1990 **ACM Transactions on Graphics (TOG)**, Volume 9 Issue 1Full text available:  pdf(2.94 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

- 2 Rendering synthetic objects into real scenes: bridging traditional and image-based graphics with global illumination and high dynamic range photography**

Paul Debevec

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**Full text available:  pdf(568.73 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 3 Measuring and modeling anisotropic reflection**

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- 4 A two-pass solution to the rendering equation: A synthesis of ray tracing and radiosity methods**

John R. Wallace, Michael F. Cohen, Donald P. Greenberg

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- 5 Liveboard: a large interactive display supporting group meetings, presentations, and remote collaboration**

Scott Elrod, Richard Bruce, Rich Gold, David Goldberg, Frank Halasz, William Janssen, David Lee, Kim McCall, Elin Pedersen, Ken Pier, John Tang, Brent Welch

June 1992 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  pdf(1.17 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

- 6 The progression of realism in computer generated images**

Martin E. Newell, James F. Blinn

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- 7 Of Vampire mirrors and privacy lamps: privacy management in multi-user augmented environments**

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- 8 The RADIANCE lighting simulation and rendering system**

Gregory J. Ward

July 1994

Proceedings of the 21st annual conference on Computer graphics and interactive techniquesFull text available:  pdf(2.36 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**9 Reflectance and texture of real-world surfaces**

Kristin J. Dana, Bram van Ginneken, Shree K. Nayar, Jan J. Koenderink

January 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 1Full text available:  pdf(6.94 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**10 Two methods for display of high contrast images**

Jack Tumblin, Jessica K. Hodgins, Brian K. Guenter

January 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 1Full text available:  pdf(10.28 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)**11 A lighting model aiming at drive simulators**

Eiichi Nakamae, Kazufumi Kaneda, Takashi Okamoto, Tomoyuki Nishita

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques**, Volume 24 Issue 4Full text available:  pdf(9.67 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**12 A shading model for atmospheric scattering considering luminous intensity distribution of light sources**

Tomoyuki Nishita, Yasuhiro Miyawaki, Eiichi Nakamae

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 4Full text available:  pdf(1.96 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**13 Object shape and reflectance modeling from observation**

Yoichi Sato, Mark D. Wheeler, Katsushi Ikeuchi

August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**Full text available:  pdf(1.11 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**14 A hierarchical illumination algorithm for surfaces with glossy reflection**

Larry Aupperle, Pat Hanrahan

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**Full text available:  pdf(538.43 KB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15 Illumination networks: fast realistic rendering with general reflectance functions**

Chris Buchalew, Donald Fussell

July 1989 **ACM SIGGRAPH Computer Graphics , Proceedings of the 16th annual conference on Computer graphics and interactive techniques**, Volume 23 Issue 3Full text available:  pdf(2.64 MB)Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)**16 Light-water interaction using backward beam tracing**

Mark Watt

September 1990 **ACM SIGGRAPH Computer Graphics , Proceedings of the 17th annual conference on Computer graphics and interactive techniques**, Volume 24 Issue 4Full text available:  pdf(3.23 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)**17 A graphics toolkit based on differential constraints**

Michael Gleicher

December 1993 **Proceedings of the 6th annual ACM symposium on User interface software and technology**Full text available:  pdf(1.61 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Color gamut mapping and the printing of digital color images**

Maureen C. Stone, William B. Cowan, John C. Beatty

October 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 4Full text available:  pdf(6.06 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

19 Global illumination using local linear density estimation

Bruce Walter, Philip M. Hubbard, Peter Shirley, Donald P. Greenberg
July 1997 **ACM Transactions on Graphics (TOG)**, Volume 16 Issue 3

Full text available:  pdf(22.31 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



20 Scientific Applications: Computer synthesis of Holograms for 3-D display

L. B. Lesem, P. M. Hirsch, J. A. Jordan
October 1968 **Communications of the ACM**, Volume 11 Issue 10

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George W. Fitzmaurice, Shumin Zhai, Mark H. Chignell

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1 Angle diversity for nondirected wireless infrared communication

Carruther, J.B.; Kahn, J.M.;
Communications, IEEE Transactions on , Volume: 48 , Issue: 6 , June 2000
Pages:960 - 969

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) [IEEE JNL](#)

2 Multispot diffusing configuration for wireless infrared access

Jovkova, S.T.; Kavehard, M.;
Communications, IEEE Transactions on , Volume: 48 , Issue: 6 , June 2000
Pages:970 - 978

[\[Abstract\]](#) [\[PDF Full-Text \(228 KB\)\]](#) [IEEE JNL](#)

3 Fiber optics in sensing and measurement

Culshaw, B.;
Selected Topics in Quantum Electronics, IEEE Journal of , Volume: 6 , Issue: 6 , Nov.-Dec. 2000
Pages:1014 - 1021

[\[Abstract\]](#) [\[PDF Full-Text \(160 KB\)\]](#) [IEEE JNL](#)

4 Solder joints inspection using a neural network and fuzzy rule-based classification method

Kuk Won Ko; Hyung Suck Cho;
Electronics Packaging Manufacturing, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part C: Manufacturing, IEEE Transactions on] , Volume: 23 , Issue: 2 , April 2000
Pages:93 - 103

[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) [IEEE JNL](#)

5 Adaptive noncontact gesture-based system for augmentative communication

Reilly, R.B.; O'Malley, M.J.;
Rehabilitation Engineering, IEEE Transactions on [see also IEEE Trans. on Neural Systems and Rehabilitation] , Volume: 7 , Issue: 2 , June 1999
Pages:174 - 182

[\[Abstract\]](#) [\[PDF Full-Text \(464 KB\)\]](#) [IEEE JNL](#)

6 Intense EUV incoherent plasma sources for EUV lithography and other applications*Silfvast, W.T.;*

Quantum Electronics, IEEE Journal of , Volume: 35 , Issue: 5 , May 1999

Pages:700 - 708

[\[Abstract\]](#) [\[PDF Full-Text \(232 KB\)\]](#) [IEEE JNL](#)

7 Wireless infrared communications*Kahn, J.M.; Barry, J.R.;*

Proceedings of the IEEE , Volume: 85 , Issue: 2 , Feb. 1997

Pages:265 - 298

[\[Abstract\]](#) [\[PDF Full-Text \(2284 KB\)\]](#) [IEEE JNL](#)

8 Wireless communications for office information networks*Pahlavan, K.;*

Communications Magazine, IEEE , Volume: 23 , Issue: 6 , Jun 1985

Pages:19 - 27

[\[Abstract\]](#) [\[PDF Full-Text \(1056 KB\)\]](#) [IEEE JNL](#)

9 Diode lasers in photomedicine*Pratesi, R.;*

Quantum Electronics, IEEE Journal of , Volume: 20 , Issue: 12 , Dec 1984

Pages:1433 - 1439

[\[Abstract\]](#) [\[PDF Full-Text \(856 KB\)\]](#) [IEEE JNL](#)

10 Nd-doped phosphate glass laser systems for laser-fusion research*Yamanaka, C.; Kato, Y.; Izawa, Y.; Yoshida, K.; Yamanaka, T.; Sasaki, T.; Nakatsuka, M.; Mochizuki, T.; Kuroda, J.; Nakai, S.;*

Quantum Electronics, IEEE Journal of , Volume: 17 , Issue: 9 , Sep 1981

Pages:1639 - 1649

[\[Abstract\]](#) [\[PDF Full-Text \(4296 KB\)\]](#) [IEEE JNL](#)

11 A comparative study of dye prism ring lasers*Marowsky, G.; Zaraga, F.;*

Quantum Electronics, IEEE Journal of , Volume: 10 , Issue: 11 , Nov 1974

Pages:832 - 837

[\[Abstract\]](#) [\[PDF Full-Text \(720 KB\)\]](#) [IEEE JNL](#)

12 FM and AM mode locking of the homogeneous laser--Part II: Experimental results in a Nd:YAG laser with internal FM modulation*Kuizenga, D.; Siegman, A.;*

Quantum Electronics, IEEE Journal of , Volume: 6 , Issue: 11 , Nov 1970

Pages:709 - 715

[\[Abstract\]](#) [\[PDF Full-Text \(984 KB\)\]](#) [IEEE JNL](#)

13 Longitudinal mode control in giant pulse lasers*McClung, F.; Weiner, D.;*

Quantum Electronics, IEEE Journal of , Volume: 1 , Issue: 2 , May 1965

Pages:94 - 99

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equivalent to finding extremal paths from the **light source** to the **visible surface** via the **mirrors**. Once

[Illumination from Curved Reflectors](#) Don Mitchell Pat Hanrahan #AT&T Bell

the **reflected illumination** from curved **mirror surfaces** onto other **surfaces**. In accordance with Fermat's
<ftp.maths.tcd.ie/pub/papers/graphics/paper.ps.gz>

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[Backward Ray Tracing](#) - Arvo (1986) (Correct) (29 citations)

and/or refracted light originating from point **light sources**. The technique involves one or more passes of quality and realism. Simulation of effects such as reflection and refraction have been the hallmarks of ray into the environment in order to perform visible **surface** calculations. Additional rays are spawned at the www.cs.caltech.edu/~arvo/papers/Backward.ps

[Optical Communication Using Micro Corner Cube Reflectors](#) - Chu, Lo, Berg, Pister (1997) (Correct) (4 citations)

reflected directly back to the direction of the **light source**. By changing the shape of the CCR, the CCR can

1 [Optical Communication Using Micro Corner Cube Reflectors](#) Patrick B. Chu Nanding R. Lo Erik
 at Berkeley, Berkeley, CA 94720, U.S.A. ABSTRACT Surface micromachined corner cube **reflectors** made of
synergy.icsl.ucla.edu/~patrick/Papers/MEMS97.ps

[Interactive Rendering of Globally Illuminated Glossy Scenes](#) - Stürzlinger, Bastos (1997) (Correct) (4 citations)

The algorithm shoots photons from the **light sources**, following their paths until they are photon hit onto the corresponding **surface** taking **reflectance** properties and viewing direction into photo-realistic images. Scenes with diffuse **surfaces** only can be displayed in real-time using the www.cs.unc.edu/~walk/papers/bastos/fastglos.ps.gz

[Path Jacobians: Theory and Applications](#) - Chen, Arvo (1998) (Correct) (1 citation)

by the **reflected illumination** from a **light source**. Then similar path pattern exists among the two arbitrary points in a scene via multiple **reflectors** is given by a non-linear system. If we fix www.cs.caltech.edu/~chen/papers/tech/path_jac.ps

[Visibility with One Reflection](#) - Aronov, Davis, Dey, Pal, Prasad (1997) (Correct)

in P that are directly visible to the point **light source** S. If the polygon is understood in context we

[Visibility with One Reflection](#) Boris Aronov 1 Alan R. Davis 2 Tamal K.

www.cis.ohio-state.edu/~tamaldey/paper/onevis/paper.ps.gz

[A Method to Evaluate Mirrors for Cherenkov Counters](#) - Stutte, Engelfried, Kilmer (1995) (Correct)

Method Figure 1 shows the Ronchi method. A **light source** is placed at approximately the center of expressed herein do not necessarily state or **reflect** those of the United States Government or any but has been found to be applicable for the lower **surface** quality of Cherenkov **mirrors**. 1 Introduction
fnalpubs.fnal.gov/archive/1995/pub/Pub-95-138-E.ps

[Radiosity Rendering With Specular Shading](#) - By Gary Thomas (Correct)

scene. A modeled scene is given in terms of the **light source** and **non-light source** objects in the synthesis is increasing the diversity of **surface** **reflectance** characteristics which may be simultaneously ftp.xmission.com/pub/users/s/shear/thesis.ps.gz

[A Bayesian Framework for the Integration of Visual Modules](#) - Bülthoff, Yuille (1996) (Correct)

objects being viewed, and, in some cases, the **light source** direction(s) We will concentrate on the

depends on the tendency of the viewed **surface** to **reflect** light, its albedo, and a geometric **reflectance**

we represent the viewed scene by one, or more, **surfaces** using prior assumptions about the **surface** shapes
[ftp.mpik-tueb.mpg.de/pub/papers/hhb/BuLyuille95.ps.Z](http://mpik-tueb.mpg.de/pub/papers/hhb/BuLyuille95.ps.Z)

Calculating Global Illumination for Glossy Surfaces - Stürzlinger (Correct)

This algorithm shoots photons from the **light sources**, follows these particles until they are Whenever a photon hits a **surface** it is randomly reflected, refracted or absorbed depending on the Calculating Global Illumination for Glossy Surfaces Wolfgang Strzlinger GUP, Johannes Kepler www.cs.yorku.ca/~wolfgang/papers/calcglos.ps.gz

Optical Communication Link Using Micromachined Corner Cube.. - Chu, Lo, Berg, Pister (1997) (Correct)
reflected directly back to the direction of the **light source**. By changing the shape of the CCR, the CCR can communication link using micromachined corner cube **reflector** Patrick B. Chu a Nanping R. Lo a Erik interrogating laser from a 5mW laser source. The **surface** micromachined CCRs are made of 250m square robotics.eecs.berkeley.edu/~pister/publications/ChuCCRSPIE97.ps

Time and Space Optimal Data Parallel Volume Rendering Using ... - Wittenbrink, Somani (1996) (Correct)
slice of a volume of varying density. **Light sources** illuminate particles that **reflect** light to density. **Light sources** illuminate particles that **reflect** light to the eye. Assuming low particle the view ray, The function can calculate either **surface** analogies (flat, Gouraud, and Phong shading ftp.cse.ucsc.edu/pub/tr/ucsc-crl-96-33.ps.Z

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[A Scalable Approach to Interactive Global Illumination](#) - Benthin, Wald, Slusallek (2003) (Correct) (1 citation)
 PCs. Left: Room with a globe and an animated **light source** causing quick changes in indirect illumination applications we expect the environment to **reflect** changes in the scene due to global lighting in indirect illumination rendered at 4.5 fps. The **lamp** currently illuminates the ocean giving the front graphics.cs.uni-sb.de/~wald/Publications/2003_IGI2/igi2.pdf

[Low-cost Photometric Calibration for Interactive Relighting](#) - Celine Loscos George (2000) (Correct)
 Finally, photometric information on real **light sources** (geometry, emittance) and **reflectance** need to relighting and remodelling of real scenes, using a **reflectance** estimation method. Most previous work a single, small and portable **light source** (a garden **lamp**) in several positions. We call the resulting www-sop.inria.fr/reves/publications/data/2000/LD00/LoscosFBWVR00.pdf.gz

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Germany. The spectrometer system consists of a **light source** (12V/100W tungsten halogen **lamp**)which is 031138 An ASAE Meeting Presentation Spatial **Reflectance** at Sub-Leaf Scale Discriminating NPK Stress of a **light source** (12V/100W tungsten halogen **lamp**)which is controlled by a photodiode sensor, and www.bjornsdottir.dk/RASMUS/WhoAmI/DOCS/ASAE2003_paper_no_031138.pdf

[EUROGRAPHICS 2003 / P. Brunet and D. Fellner - Guest Editors Volume](#) (Correct)

PCs. Left: Room with a globe and an animated **light source** causing quick changes in indirect illumination applications we expect the environment to **reflect** changes in the scene due to global lighting in indirect illumination rendered at 4.5 fps. The **lamp** currently illuminates the ocean giving the front graphics.cs.uni-sb.de/Publications/webgen///IGI2/download/igi2.pdf

[Vision Research 41 \(2001\) 427 -- 439 - Characterization And Use](#) (Correct)

circuit technology. When coupled to a **light source**, an image is formed on the **reflective** surface within the digital light projector. Total internal reflection (TIR) prisms steer the beam into three in Hornbeck (1997)Light from the xenon arc **lamp** is relayed by lenses L1 -L4 to a camera port in color.psych.upenn.edu/brainard/papers/DLP.pdf

[Characteristic Times in the Homeotropic to Planar.. - Watson Sergan Anderson](#) (Correct)

at an oblique angle using a diffuse **light source**. However, a single characteristic time is not investigated. By using an optical retro-reflection technique, we have isolated the orientation (3)The **light source** includes a high power halogen **lamp** focused on the input of a fiber optic light guide www.lci.kent.edu/boslab/people/watson_p/pubs/watson_p_char_time_h_to_p_trans_chs.pdf

[A Note on Flows Towards Reflectors - Schnürer \(2001\)](#) (Correct)

find surfaces that **reflect** light from a given **light source** such that a prescribed intensity on a target Leipzig A note on flows towards **reflectors** by Oliver C. Schnurer Preprint no.66 2001 has applications in the design of **reflectors for lamps**. 4 Oliver C. Schnurer Figure 2. **Lamp** in the www.mis.mpg.de/preprints/2001/preprint6601.ps.gz

[FIES: A high resolution Fiber fed Echelle Spectrograph for NOT - Specifications And](#) (Correct)

mirror choosing between the sky and a reference **light source** (supplied from the **lamp** unit, see later) ffl it is convenient. The specifications given below **reflects** the original assumptions about a standby table. An additional utility is the calibration **lamp** unit, which provides a range of flatfielding or bigcat.obs.aau.dk/~srf/papers/STC_report.ps.gz

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